PA NT COOPERATION TREAT

ALC:	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202
Date of mailing (day/month/year)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
13 February 2001 (13.02.01)	
International application No. PCT/NL00/00371	Applicant's or agent's file reference WO 800142-VB
International filing date (day/month/year)	Priority date (day/month/year)
30 May 2000 (30.05.00)	31 May 1999 (31.05.99)
Applicant	
VELLEKOOP, Michael, Johannes et al	
1. The designated Office is hereby notified of its election made. X in the demand filed with the International Preliminar 28 December	y Examining Authority on: 2000 (28.12.00) national Bureau on:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Zakaria EL KHODARY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

SEARCH REPORT

dication No PCT/NL 00/00371

A CLASSIFICATION OF SUBJECT MATTER IPC 7 G01F23/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - G01F - B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	
A	WO 98 03841 A (SCEPTER SCIENT INC) 29 January 1998 (1998-01-29) page 3, line 3 -page 4, line 8; figures 1-3	1-11
A	WO 96 24030 A (ABBOTT LAB) 8 August 1996 (1996-08-08) cited in the application page 5, line 29 -page 15, line 27; figures 1-8	1-11
A	US 5 863 708 A (CHERUKURI SATYAM CHOUDARY ET AL) 26 January 1999 (1999-01-26) column 7, line 37 -column 8, line 26; figure 4	1

Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) Co document referring to an oral disclosure, use, exhibition or other means	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art.
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
6 September 2000	14/09/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Heinsius, R

PCT/NL 00/00371

		PC1/NL 00	7 000, 2
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	DE 196 46 505 A (ITT IND GMBH DEUTSCHE) 14 May 1998 (1998-05-14) column 4, line 27 -column 5, line 7; figure 1		1
A	figure 1 EP 0 819 942 A (BOEHRINGER MANNHEIM GMBH; HITACHI LTD (JP)) 21 January 1998 (1998-01-21) column 9, line 42 -column 10, line 53; figures 3,4		1

INTERNATIO

SEARCH REPORT

Information on patent family members

Int to plication No PCT/NL 00/00371

	ent document in search report		Publication date		Patent family member(s)	Publication date
WO	9803841	Α	29-01-1998	US	5765434 A	16-06-1998
<u></u>	9624030	Α	08-08-1996	CA	2211355 A	08-08-1996
MO	9024030	^	00 00 1111	EP	0807244 A	19-11-1997
				JP	11500217 T	06-01-1999
115	5863708	Α	26-01-1999	US	5585069 A	17-12-1996
U3	3803700	^	20 01 1000	ĂŬ	705351 B	20-05-1999
				AU	4152396 A	06-06-1996
				AU	705659 B	27-05-1999
				AU	4233796 A	06-06-1996
				CA	2204912 A	23-05-1996
				CA	2205066 A	23-05-1996
				EP	0791238 A	27-08-1997
				ΕP	0808456 A	26-11-1997
				JP	11500602 T	19-01-1999
				WO	9615450 A	23-05-1996
				WO	9615576 A	23-05-1996
				US	5681484 A	28-10-1997
				US	5643738 A	01-07-1997
				US	5593838 A	14-01-1997
				US	5846396 A	08-12-1998
				US	5985119 A	16-11-1999
				US	5755942 A	26-05-1998
				US	5858804 A	12-01-1999
DE	19646505		14-05-1998	WO	9820974 A	22-05-1998
UĽ	19040303	^	2, 00 2290	EP	0938383 A	01-09-1999
	0819942	Α	21-01-1998	JP	10038899 A	13-02-1998
C.I.	0013345	^	01 00	ÜS	5855851 A	05-01-1999

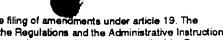
UB

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
To: OCTROOIBUREAU LOS EN STIGTER B.V. Attn. VAN BREDA, J. Weteringschans 96	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION				
NL-1017 XS Amsterdam NETHERLANDS	(PCT Rule 44.1)				
Map. WD 800142					
Ingek. 1 2 SEP. 2000	Date of mailing				
14.11.2000 9.10.0	(day/month/year) 14/09/2000				
Applicant's or agent's file reference 20. (1. 2001)					
WO 800142-VB	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/NL 00/00371	International filing date (day/month/year) 30/05/2000				
Applicant	<u> </u>				
TECHNISCHE UNIVERSITEIT DELFT					
The applicant is hereby notified that the International Search Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim					
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.					
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland Fascimile No.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the accompanying sheet.					
2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Further action(s): The applicant is reminded of the following:					
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 mg					
Within 20 months from the priority date, the applicant must perforbefore all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	ne demand or in a later election within 19 months from the				
Name and mailing address of the International Searching Authority	Authorized officer				

Jeanne Bauer

European Patent Office, P.B., 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

NOTES TO FORM PCT/ISA/220



These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international poulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been his filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filled

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WO 800142-VB	(Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/NL 00/00371	30/05/2000	31/05/1999				
Applicant						
TECHNISCHE UNIVERSITEIT D	ELFT					
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Al ansmitted to the International Bureau.	uthority and is transmitted to the applicant				
This International Search Report consists of a total of sheets. X It is also accompanied by a copy of each prior and document cited in this report.						
Basis of the report						
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the bless otherwise indicated under this item.	pasis of the international application in the				
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation o	f the international application furnished to this				
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
	contained in the international application in written form. filed together with the international application in computer readable form.					
		. птк				
1 =	this Authority in written form.					
furnished subsequently to this Authority in computer readble form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the						
international application as filed has been furnished.						
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished						
2. Certain claims were for	ind unsearchable (See Box I).					
3. Unity of invention is lacking (see Box ii).						
4. With regard to the title,	•	•				
X the text is approved as si	ubmitted by the applicant.					
i = .	shed by this Authority to read as follows:					
5. With regard to the abstract,	barren de la					
the text has been establis	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Autho e date of mailing of this international search of	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.				
6. The figure of the drawings to be pub		1				
X as suggested by the app		None of the figures.				
because the applicant fai						
because this figure better	characterizes the invention.					

International Application No PCT/NL 00/00371

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01F23/

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01F B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

A WO 98 03841 A (SCEPTER SCIENT INC) 29 January 1998 (1998-01-29) page 3, line 3 -page 4, line 8; figures 1-3 A WO 96 24030 A (ABBOTT LAB) 8 August 1996 (1996-08-08) cited in the application page 5, line 29 -page 15, line 27; figures 1-8	1-11
8 August 1996 (1996-08-08) cited in the application page 5, line 29 -page 15, line 27; figures	
	1-11
A US 5 863 708 A (CHERUKURI SATYAM CHOUDARY ET AL) 26 January 1999 (1999-01-26) column 7, line 37 -column 8, line 26; figure 4	1

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "U" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
6 September 2000	14/09/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Heinsius, R

International Application No PCT/NL 00/00371

	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT		,
Category °	Citation of docu	,	Relevant to daim No.
4	DE 196 46 505 A (ITT IND GMBH DEUTSCHE) 14 May 1998 (1998-05-14) column 4, line 27 -column 5, line 7; figure 1		1
4	EP 0 819 942 A (BOEHRINGER MANNHEIM GMBH; HITACHI LTD (JP)) 21 January 1998 (1998-01-21) column 9, line 42 -column 10, line 53; figures 3,4		1
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	;		

Information on patent family members

International Application No PCT/NL 00/00371

	itent document in search re		Publication date		Paten ly men	Publication date
WO	9803841	A	29-01-1998	US	5765434 A	16-06-1998
WO	9624030	Α	08-08-1996	CA	2211355 A	08-08-1996
				EP	0807244 A	19-11-1997
				JP	11500217 T	06-01-1999
US	5863708	 A	26-01-1999	US	5585069 A	17-12-1996
				AU	705351 B	20-05-1999
				AU	4152396 A	06-06-1996
				ΑU	705659 B	27-05-1999
				AU	4233796 A	06-06-1996
				CA	2204912 A	23-05-1996
				CA	2205066 A	23-05-1996
				EP	0791238 A	27-08-1997
				EP	0808456 A	26-11-1997
				JP	11500602 T	19-01-1999
				WO	9615450 A	23-05-1996
				WO	9615576 A	23-05-1996
				US	5681484 A	28-10-1997
				US	5643738 A	01-07-1997
				US	5593838 A	14-01-1997
	•			US	5846396 A	08-12-1998
				US	5985119 A	16-11-1999
				US	5755942 A	26-05-1998
				US	5858804 A	12-01-1999
DE	19646505	A	14-05-1998	WO	9820974 A	22-05-1998
·				EP	0938383 A	01-09-1999
EP	0819942	Α	21-01-1998	JP	10038899 A	13-02-1998
				US	5855851 A	05-01-1999

PCT

REC'D 0 4 SEP 2001 WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WO 800142-VB	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/month	n/year) Priority date (day/month/year)			
PCT/NL00/00371	30/05/2000	31/05/1999			
International Patent Classification (IPC) or na G01F23/26 Applicant	Itional classification and IPC				
TECHNISCHE UNIVERSITEIT DEL	FT et al.				
This international preliminary exam- and is transmitted to the applicant a		by this International Preliminary Examining Authority			
2. This REPORT consists of a total of	8 sheets, including this cover sl	neet.			
been amended and are the bas		e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).			
These annexes consist of a total of	3 sheets.				
3. This report contains indications rela	iting to the following items:				
I ⊠ Basis of the report					
Ⅱ □ Priority					
III Non-establishment of o	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
IV 🔲 Lack of unity of invention	on				
V A Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement					
VI Certain documents cite					
VII Certain defects in the in	nternational application				
VIII ⊠ Certain observations or	n the international application				
Date of submission of the demand	Date of c	completion of this report			
28/12/2000	31.08.20	001			
Name and mailing address of the international preliminary examining authority:	1 Authorize	ed officer			
European Patent Office D-80298 Munich	Bravin,	M (1)			
Tel. +49 89 2399 - 0 Tx: 523656 Fax: +49 89 2399 - 4465	· '	ne No. +49 89 2399 2417			

Telephone No. +49 89 2399 2417

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/NL00/00371

l. Basis of the rep	. .	Bas	is	of	the	rep	r
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1.	the and	receiving Office in	nents of the international appersection appersection und the section and the section and the section appersection appears to the section	ler Article 14 are	referred to in this	report as "originally filed"
	2-6		as originally filed			
	1		as received on	09/08/2001	with letter of	06/08/2001
	Cla	ims, No.:				
	1-1	1	as received on	09/08/2001	with letter of	06/08/2001
	Dra	wings, sheets:				
	1/1		as originally filed			
2.			guage , all the elements mark international application was			
	The	ese elements were a	available or furnished to this a	Authority in the fo	ollowing language:	, which is:
		the language of a	translation furnished for the p	ourposes of the i	nternational search	n (under Rule 23.1(b)).
		the language of pu	ublication of the international	application (und	er Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished for the p	ourposes of inter	national preliminar	y examination (under Rule
3.			eleotide and/or amino acid s y examination was carried ou	•		• •
		contained in the in	ternational application in writ	ten form.		
		filed together with	the international application i	n computer read	able form.	
		furnished subsequ	ently to this Authority in writte	en form.		
		furnished subsequ	ently to this Authority in com	puter readable fo	orm.	
			t the subsequently furnished oplication as filed has been for		e listing does not g	o beyond the disclosure in
		The statement that listing has been fu	t the information recorded in mished.	computer readal	ole form is identica	I to the written sequence
4.	The	amendments have	resulted in the cancellation of	of:		

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/NL00/00371

	the description,	pages:
	the claims,	Nos.:
	the drawings,	sheets:
×	•	established as if (some of) the amendments had not been made, since they have been yound the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.) see separate sheet

6. Additional observations, if necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

5.

Novelty (N) Yes: Claims 2-11

No: Claims 1

Yes: Inventive step (IS) Claims 9

No: Claims 1-8, 11

Claims 1-11

Yes:

No: Claims

2. Citations and explanations see separate sheet

Industrial applicability (IA)

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item I

Basis of the report

An amendment filed with the letter dated 6 Aug. 2001 introduces subject matter which extends beyond the content of the application as filed, contrary to Art. 34(2)(b) PCT. The amendment concerned is the following:

omission of the term "small" in the expression "small quantity of a liquid" according to claim 1 as filed. Although said term is relative and the description is needed for its interpretation, its omission leads to a generalisation that is not admissible in view of the alleged invention (see description, p. 1, line 1 to p. 2, line 9, and p. 5, lines 25-35).

Said amendment has therefore not been taken into consideration.

Re Item V

Reasoned statement under Art. 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

- D1: US 4 225 410 A (PACE) 30 September 1980 (1980-09-30)
- D2: WO 96 24030 A (ABBOTT LAB) 8 August 1996 (1996-08-08) cited in the application
- D3: DE 196 46 505 A (ITT IND GMBH DEUTSCHE) 14 May 1998 (1998-05-14)
- D4: WO 98 03841 A (SCEPTER SCIENT INC) 29 January 1998 (1998-01-29) cited in the application
- D5: US-A-5 863 708 (CHERUKURI SATYAM CHOUDARY ET AL) 26 January 1999 (1999-01-26)

(Document D1 was not cited in the international search report).

EXAMINATION REPORT - SEPARATE SHEET

2. The subject matter of claim 1 is not new (Art. 33(2) PCT) :

Document D2 discloses the subject matter of claim 1:

An apparatus (see Fig. 1, D2) for measuring a volume of a small quantity of a liquid (see Abstract and p. 15, lines 19-27, D2) comprising at least one chamber (30, Fig. 4, D2) for receiving the liquid, which chamber comprises a bottom and upright side walls (see Fig. 1, D2) and at least two electrodes (connecting electrodes 54, 56, Fig. 4, D2 - see also p. 7, lines 14-33, D2) suitable for connecting to a voltage source and a measuring system according to claim 1 (see p. 9, lines 26-35 and Fig. 7, D2), whereby the electrodes are incorporated in the bottom of the chamber (see Fig. 4, D2), allowing the electrical impedance of the liquid its If to be determined (the level-dependent capacitance of the liquid is measured in D2).

It follows that claim 1 does not meet the requirements of Art. 33(2) PCT in respect of novelty.

3. An interpretation of claim 1 based on the description, that is, an apparatus comprising the particular electrode arrangement displayed on Fig. 1-2, would not lead to the conclusion that claim 1 involves an inventive step (Art. 33(3) PCT). The reasons are as follows:

The apparatus according to D2 allows verifying the volume of a quantity of liquid contained in a chamber, using two measuring electrodes (44, 46, Fig. 4, D2) comprised within the walls of the chamber. A skilled person will understand from D2 that, for this purpose, the height-dependent capacitance of the liquid between the two electrodes is measured and the volume of the liquid contained in the chamber is derived from its height, knowing the base surface area of the chamber.

The apparatus described in the application differs from D2 in that a different electrode arrangement is used (measuring electrodes fully incorporated in the bottom of the chamber).

The electrode arrangement proposed in the application is known from D4 (see Fig.1, D4) and used, according to that document, to determine the height of a liquid through height-dependent capacitance measurements (see Abstract and p. 2, lines 10-17, D4), the liquid, however, not being confined within a chamber (see p. 1, lines 4-10, D4).

It is obvious to the skilled person that the electrode arrangement of D4 would also serve its purpose if the liquid were contained in a chamber. In effect, the main contribution to the measured capacitance in D4 comes from electric field lines traversing the liquid directly above and between the electrodes, since the field intensity is larger in that region. The skilled person would thus not expect that outside insulating wall chambers would affect the field distribution in such a way as to make the height measurements impossible.

In other words, there is no technical prejudice against using the electrode arrangement according to D4 to determine the height of a liquid contained in a chamber. The skilled person would therefore regard the electrode arrangement of D4 as an obvious alternative to the electrode arrangement of D2 and would, according to circumstances, implement it in a chamber according to D2. By so doing, he would arrive at a device according to the application, without an inventive step being involved.

4.
Dependent claims 2-8 and 10-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Art. 33(3) PCT), the reasons being as follows:

Claims 2-8, 10 relate to materials and structures usual in semiconductor fabrication technology, which technology is obvious in the context set forth in the application (miniaturized medical diagnostic test apparatuses) - see e.g. D1, D3, D5.

Claim 11 defines an additional voltage source with an operating frequency range allowing to bring down the value of an impedance in a favorable range for measurement (see description, p. 4, lines 10-18). The subject matter of claim 11 is obvious for a skilled person, especially in view of p. 4, line 25 to p. 5, line 1 of D4, where similar measurements as in the application are performed, with a similar electrode arrangement.

5.

The subject matter of claim 9 would appear to meet the requirements of Art. 33 PCT in respect of novelty and inventive step:

From the description (p.1, line 28 to p. 2, line 20; p. 5, lines 30-35 and Fig. 1-2), it is possible to conclude that the type of dual electrode arrangement known from D4, applied to a chamber known from D2, would allow miniaturization of the same to such an extent that a volume of liquid smaller by five orders of magnitude compared to that typically used in D2 would become measurable. This technical effect would not appear to be derivable from the prior art. The corresponding feature of claim 9, that is, a chamber volume of maximally 2 nanoliters, as appended to claim 1, is therefore not obvious.

Re Item VIII

Certain observations on the international application

Claim 1 does not meet the requirements of Art. 6 PCT:

Lack of clarity:

The term "small" in claim 1 as filed (see <u>Re Item I</u> of present report), being relative, has no precise meaning by itself in the present context.

Lack of support by the description:

1.

The formulation "whereby the electrodes are incorporated in the bottom of the chamber" is too vague, in that it does not permit to distinguish unambiguously the subject matter of claim 1 from D2 (see Re Item V of present report, paragraph 2). D2 however discloses a different electrode arrangement as the one described in the application. Claim 1 is thus not supported by the description as required by Article 6 PCT, as its scope is broader than justified by the description and drawings.

2.

It can be derived from the description that the electrode arrangement as described in the application does not allow the measurement of any type of impedance (in particular, it does not allow the measurement of a pure resistance since the electrodes are isolated from the sample - see p. 3, lines 27-33, p. 5, line 37 to p. 6, line 2 and Fig. 1-2). Claim 1 is therefore not supported by the description as required by Art. 6 PCT, as its scope is broader than justified by the description and drawings.



(PCT Article 18 and Rules 43 and 44)

International application No. PCT/NL 00/00371 Applicant TECHNISCHE UNIVERSITEIT DELFT This International Search Report toneless of a total of	Applicant's or agent's file reference	/Form PCT/ISA/2	f Transmittal of International Search Report 20) as well as, where applicable, item 5 b low.
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It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this ferm. the international search was carried out on the basis of a translation of the international application furnished to this Authority (flule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filled together with the international application in written form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filled has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. With regard to the written sequence listing flass been furnished. With regard to the title, X	This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant
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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01F23/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & G01F & B01L \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

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	1-11
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χ Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 6 September 2000	Date of mailing of the international search report 14/09/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Authorized officer Heinsius, R

Form PCT/ISA/210 (second sheet) (July 1992)



International Application No PC 00/00371

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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